

30-015-38999

BTA Oil Producers

Eddy ,NM

Sec 11, T23-S, R28E (NEW SHL)

8808 JV-P Pardue C #5

Wellbore #1

Survey: MWD

NM OIL CONSERVATION
ARTESIA DISTRICT

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DDC Survey Report

07 May, 2012



DDC
Survey Report



Company: BTA Oil Producers
Project: Eddy, NM
Site: Sec 11, T23-S, R28E (NEW SHL)
Well: 8808 JV-P Pardue C #5
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well 8808 JV-P Pardue C #5
TVD Reference: WELL @ 3023.0usft (Original Well Elev)
MD Reference: WELL @ 3023.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project: Eddy, NM
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Mean Sea Level

Site: Sec 11, T23-S, R28E (NEW SHL)

Site Position: Northing: 479,086.44 usft Latitude: 32° 19' 0.624 N
From: Map Easting: 582,853.03 usft Longitude: 104° 3' 54.486 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.14 °

Well: 8808 JV-P Pardue C #5
Well Position: +N/-S 0.0 usft Northing: 479,086.44 usft Latitude: 32° 19' 0.624 N
+E/-W 0.0 usft Easting: 582,853.03 usft Longitude: 104° 3' 54.486 W
Position Uncertainty: 0.0 usft Wellhead Elevation: usft Ground Level: 3,023.0 usft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/3/2012	7.71	60.19	48,581

Design: Wellbore #1

Audit Notes:
Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°)
0.0 0.0 0.0 164.17

Survey Program Date: 5/7/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	2,486.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
2,577.0	8,585.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Tie In @ 2486' MD / 2485' TVD									
2,486.0	2.69	111.34	2,485.1	-43.6	12.4	45.3	0.00	0.00	0.00
2,577.0	2.10	112.30	2,576.0	-45.0	15.9	47.6	0.65	-0.65	1.05
2,641.0	2.80	146.50	2,639.9	-46.8	17.8	49.8	2.48	1.09	53.44
2,705.0	4.50	178.90	2,703.8	-50.6	18.7	53.8	4.08	2.66	50.63
2,768.0	5.90	193.10	2,766.6	-56.2	18.1	59.0	3.00	2.22	22.54
2,832.0	6.50	189.40	2,830.2	-63.0	16.7	65.1	1.13	0.94	-5.78
2,897.0	8.00	186.60	2,894.7	-71.1	15.6	72.7	2.37	2.31	-4.31
2,960.0	10.20	183.20	2,956.9	-81.0	14.8	82.0	3.59	3.49	-5.40
3,024.0	11.80	178.10	3,019.7	-93.2	14.7	93.7	2.92	2.50	-7.97

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,088.0	12.50	174.30	3,082.3	-106.6	15.6	106.9	1.66	1.09	-5.94
3,152.0	13.50	174.70	3,144.6	-121.0	17.0	121.0	1.57	1.56	0.63
3,216.0	13.70	175.20	3,206.8	-136.0	18.3	135.8	0.36	0.31	0.78
3,279.0	15.00	175.20	3,267.9	-151.5	19.6	151.1	2.06	2.06	0.00
3,343.0	15.70	174.00	3,329.6	-168.4	21.2	167.8	1.20	1.09	-1.88
3,407.0	15.30	173.70	3,391.2	-185.4	23.0	184.7	0.64	-0.63	-0.47

Crossed Lease Line @ 3468' MD / 3450' TVD

3,468.0	14.82	173.51	3,450.2	-201.2	24.8	200.3	0.79	-0.78	-0.31
3,471.0	14.80	173.50	3,453.1	-201.9	24.9	201.0	0.79	-0.78	-0.32
3,535.0	15.30	174.10	3,514.9	-218.4	26.7	217.4	0.82	0.78	0.94
3,599.0	15.90	175.40	3,576.5	-235.6	28.3	234.3	1.08	0.94	2.03
3,662.0	15.70	176.00	3,637.1	-252.7	29.5	251.2	0.41	-0.32	0.95
3,726.0	15.60	175.80	3,698.7	-269.9	30.8	268.1	0.18	-0.16	-0.31
3,790.0	15.70	175.30	3,760.4	-287.1	32.1	285.0	0.26	0.16	-0.78
3,854.0	16.80	178.60	3,821.8	-305.0	33.0	302.4	2.24	1.72	5.16
3,918.0	16.40	177.60	3,883.1	-323.3	33.7	320.2	0.77	-0.63	-1.56
3,981.0	16.70	179.80	3,943.5	-341.2	34.1	337.6	1.10	0.48	3.49
4,045.0	16.80	181.40	4,004.8	-359.6	33.9	355.2	0.74	0.16	2.50
4,109.0	16.40	182.10	4,066.2	-377.9	33.3	372.7	0.70	-0.63	1.09
4,173.0	16.30	180.90	4,127.6	-395.9	32.8	389.9	0.55	-0.16	-1.88
4,273.0	16.20	181.10	4,223.6	-423.9	32.3	416.7	0.11	-0.10	0.20
4,301.0	16.20	175.90	4,250.5	-431.7	32.5	424.2	5.18	0.00	-18.57
4,365.0	16.50	173.40	4,311.9	-449.6	34.2	441.9	1.20	0.47	-3.91
4,428.0	16.20	178.40	4,372.3	-467.3	35.5	459.3	2.28	-0.48	7.94
4,492.0	16.10	181.20	4,433.8	-485.1	35.8	476.4	1.23	-0.16	4.38
4,556.0	16.00	180.90	4,495.3	-502.8	35.2	493.3	0.20	-0.16	-0.47
4,620.0	15.80	180.60	4,556.9	-520.3	35.0	510.2	0.34	-0.31	-0.47

Crossed Hard Line @ 4660' MD / 4595' TVD

4,660.0	15.80	180.48	4,595.4	-531.2	34.9	520.6	0.09	0.00	-0.31
4,684.0	15.80	180.40	4,618.4	-537.8	34.9	526.9	0.09	0.00	-0.31
4,748.0	14.20	179.90	4,680.3	-554.3	34.8	542.8	2.51	-2.50	-0.78
4,812.0	13.30	178.90	4,742.4	-569.5	35.0	557.5	1.45	-1.41	-1.56
4,876.0	12.30	183.40	4,804.8	-583.7	34.7	571.0	2.21	-1.56	7.03
4,940.0	11.70	183.70	4,867.4	-597.0	33.9	583.6	0.94	-0.94	0.47
5,003.0	11.30	183.90	4,929.2	-609.5	33.1	595.4	0.64	-0.63	0.32
5,067.0	10.70	182.20	4,992.0	-621.7	32.4	607.0	1.07	-0.94	-2.66
5,129.0	10.00	179.10	5,053.0	-632.8	32.3	617.6	1.44	-1.13	-5.00
5,191.0	9.70	180.00	5,114.1	-643.4	32.3	627.9	0.54	-0.48	1.45
5,253.0	9.40	177.90	5,175.2	-653.7	32.5	637.8	0.74	-0.48	-3.39
5,315.0	8.40	183.10	5,236.5	-663.3	32.5	647.0	2.07	-1.61	8.39
5,377.0	7.90	184.10	5,297.8	-672.1	31.9	655.3	0.84	-0.81	1.61
5,438.0	7.10	181.30	5,358.3	-680.0	31.5	662.8	1.44	-1.31	-4.59
5,500.0	6.80	180.20	5,419.9	-687.5	31.4	670.0	0.53	-0.48	-1.77

DDC
Survey Report



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North Reference: Grid
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Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,561.0	5.70	180.10	5,480.5	-694.2	31.4	676.4	1.80	-1.80	-0.16
5,621.0	5.70	181.30	5,540.2	-700.1	31.3	682.1	0.20	0.00	2.00
5,682.0	4.80	181.20	5,600.9	-705.7	31.2	687.5	1.48	-1.48	-0.16
5,744.0	3.80	178.50	5,662.8	-710.4	31.2	691.9	1.65	-1.61	-4.35
5,806.0	3.00	177.60	5,724.7	-714.0	31.3	695.5	1.29	-1.29	-1.45
5,866.0	2.00	180.40	5,784.6	-716.6	31.4	698.0	1.68	-1.67	4.67
5,929.0	1.80	180.70	5,847.6	-718.7	31.4	700.0	0.32	-0.32	0.48
5,992.0	1.60	184.90	5,910.5	-720.6	31.3	701.8	0.37	-0.32	6.67
6,055.0	0.70	218.30	5,973.5	-721.8	31.0	702.9	1.72	-1.43	53.02
6,119.0	0.50	229.90	6,037.5	-722.3	30.5	703.2	0.36	-0.31	18.13
6,183.0	0.70	218.80	6,101.5	-722.8	30.1	703.5	0.36	0.31	-17.34
6,247.0	0.40	272.60	6,165.5	-723.0	29.6	703.7	0.88	-0.47	84.06
6,309.0	0.20	288.40	6,227.5	-723.0	29.3	703.6	0.35	-0.32	25.48
6,373.0	0.30	269.30	6,291.5	-723.0	29.0	703.5	0.20	0.16	-29.84
6,437.0	0.40	215.60	6,355.5	-723.2	28.7	703.6	0.51	0.16	-83.91
6,501.0	0.70	180.40	6,419.5	-723.7	28.6	704.1	0.69	0.47	-55.00
6,565.0	1.20	169.70	6,483.5	-724.8	28.7	705.1	0.83	0.78	-16.72
6,629.0	1.10	144.70	6,547.5	-725.9	29.2	706.4	0.79	-0.16	-39.06
6,692.0	1.40	138.50	6,610.5	-727.0	30.0	707.6	0.52	0.48	-9.84
6,756.0	1.20	127.50	6,674.5	-728.0	31.1	708.9	0.50	-0.31	-17.19
6,820.0	1.00	118.00	6,738.5	-728.7	32.1	709.8	0.42	-0.31	-14.84
6,884.0	1.30	115.10	6,802.4	-729.2	33.3	710.7	0.48	0.47	-4.53
6,948.0	0.80	105.80	6,866.4	-729.7	34.3	711.4	0.82	-0.78	-14.53
7,011.0	1.00	107.10	6,929.4	-730.0	35.3	711.9	0.32	0.32	2.06
7,075.0	0.30	170.30	6,993.4	-730.3	35.9	712.4	1.41	-1.09	98.75
7,139.0	0.60	147.50	7,057.4	-730.7	36.1	712.9	0.54	0.47	-35.63
7,203.0	0.80	161.50	7,121.4	-731.4	36.4	713.6	0.41	0.31	21.88
7,266.0	1.00	175.20	7,184.4	-732.4	36.6	714.6	0.46	0.32	21.75
7,331.0	1.10	217.00	7,249.4	-733.5	36.2	715.5	1.16	0.15	64.31
7,394.0	1.30	226.70	7,312.4	-734.4	35.4	716.2	0.45	0.32	15.40
7,458.0	1.50	230.00	7,376.4	-735.5	34.2	716.9	0.34	0.31	5.16
7,522.0	0.90	265.20	7,440.3	-736.1	33.0	717.2	1.44	-0.94	55.00
7,586.0	1.40	260.80	7,504.3	-736.2	31.8	717.0	0.79	0.78	-6.88
7,650.0	1.00	293.40	7,568.3	-736.1	30.5	716.5	1.21	-0.63	50.94
7,714.0	1.20	286.70	7,632.3	-735.7	29.3	715.8	0.37	0.31	-10.47
7,778.0	1.70	274.20	7,696.3	-735.4	27.7	715.1	0.92	0.78	-19.53
7,872.0	0.60	271.00	7,790.3	-735.3	25.9	714.5	1.17	-1.17	-3.40
7,936.0	0.90	240.00	7,854.3	-735.6	25.1	714.5	0.77	0.47	-48.44
8,032.0	0.10	114.70	7,950.3	-736.0	24.5	714.8	1.00	-0.83	-130.52
8,096.0	0.10	109.60	8,014.3	-736.0	24.6	714.8	0.01	0.00	-7.97
8,160.0	0.40	245.40	8,078.3	-736.1	24.5	714.9	0.75	0.47	212.19
8,222.0	0.70	244.40	8,140.3	-736.4	23.9	715.0	0.48	0.48	-1.61
8,285.0	0.30	336.10	8,203.3	-736.4	23.5	714.9	1.22	-0.63	145.56
8,349.0	0.50	336.70	8,267.3	-736.0	23.3	714.5	0.31	0.31	0.94

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Database: EDM 5000.1 Single User.Db

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,413.0	0.30	65.40	8,331.2	-735.7	23.4	714.2	0.90	-0.31	138.59
8,476.0	0.30	83.60	8,394.2	-735.6	23.7	714.2	0.15	0.00	28.89
8,533.0	0.04	319.60	8,451.2	-735.6	23.8	714.2	0.57	-0.46	-217.54
TD @ 8585' MD / 8503' TVD									
8,585.0	0.04	319.60	8,503.2	-735.5	23.8	714.1	0.00	0.00	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,486.0	2,485.1	-43.6	12.4	Tie In @ 2486' MD / 2485' TVD
3,468.0	3,450.2	-201.2	24.8	Crossed Lease Line @ 3468' MD / 3450' TVD
4,660.0	4,595.4	-531.2	34.9	Crossed Hard Line @ 4660' MD / 4595' TVD
8,585.0	8,503.2	-735.5	23.8	TD @ 8585' MD / 8503' TVD

Checked By: _____

Approved By: _____

Date: _____

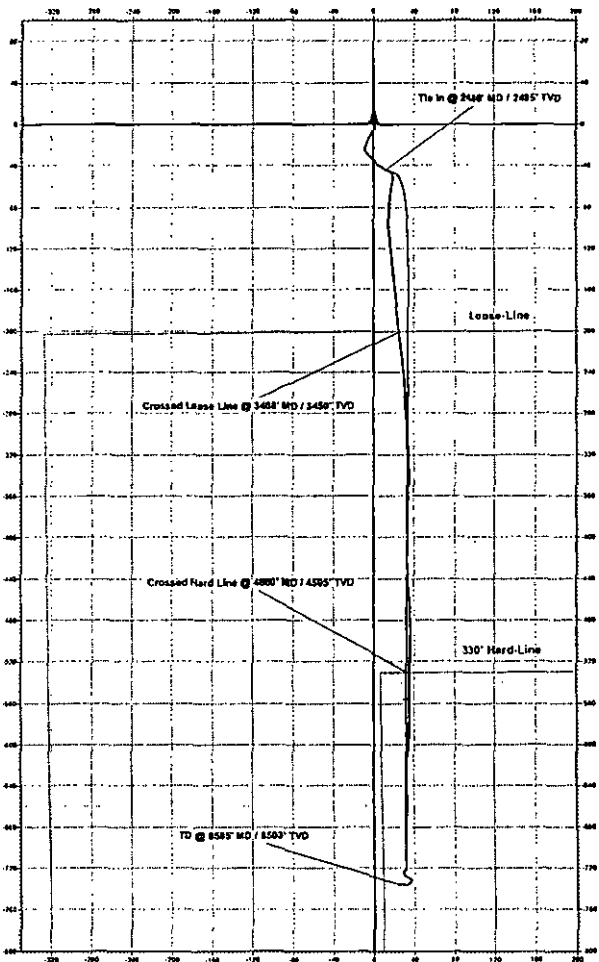
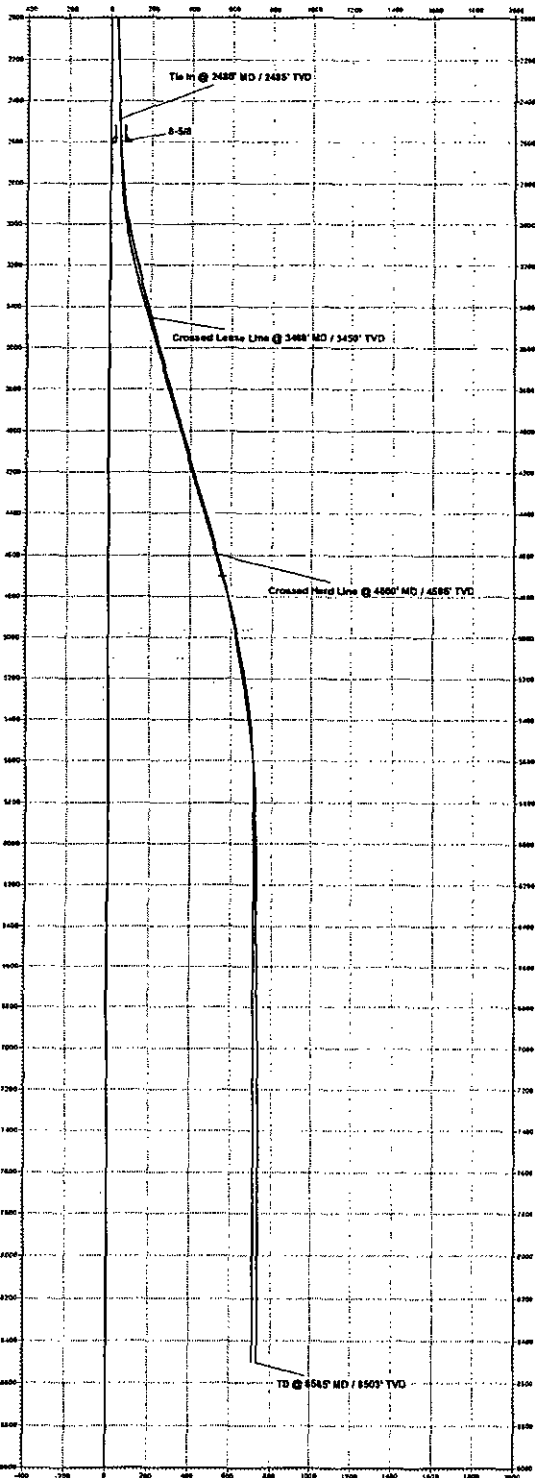
BTA Oil Producers

8808 JV-P Pardue C #5
Eddy, NM
Rig: Original Well Elev
Created By: Dina Chance
Date: 05/7/12

8808 JV-P Pardue C #5
Eddy, NM
Q110724 & WT-12234

WELL DETAILS: 8808 JV-P Pardue C #5

Ground Level: 7673.4
Easting: 473088.54
Northing: 562932.02
Latitude: 32° 18' 0.824 N
Longitude: 104° 3' 54.488 W



PROJECT DETAILS: Eddy, NM

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
Magnetic North: 7.57°
Magnetic Field
Strength: 48580.9snT
Dip Angle: 60.19°
Date: 4/3/2012
Model: IGRF200510

DESIGN TARGET DETAILS

Name: 8808 JV-P Pardue C #5 Design #3
TVD: 4700.8
+N/S: -456.8
+E/W: 31.8
Northing: 478500.81
Easting: 562984.07
Latitude: 32° 18' 0.824 N
Longitude: 104° 3' 54.488 W
plan hite target center

ANNOTATIONS

MD	Inc	Asd	TVD	+N/S	+E/W	VScan	Departure	Annotation
2485.0	2.89	111.34	2485.1	-43.9	12.4	48.5	88.5	Tie In @ 2485' MD / 2485' TVD
3485.0	14.62	173.51	3450.2	-201.7	24.6	288.3	216.5	Crossed Lease Line @ 3485' MD / 3450' TVD
4885.0	15.50	180.47	4585.1	-531.2	24.9	520.8	348.7	Crossed Hard Line @ 4885' MD / 4585' TVD
8545.0	0.04	319.88	8503.2	-735.6	23.8	714.1	773.8	TD @ 8545' MD / 8503' TVD

Vertical Section at 177.50° (200 usd/in)